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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/024,416	12/21/2001	Michael B. Neary	D/A0990	5250	
25944	7590 03/07/2005		EXAM	INER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			LE, AMANDA T		
			ART UNIT	PAPER NUMBER	
			2634		
				DATE MAILED: 03/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/024,416	NEARY, MICHAEL B.			
Office Action Summary	Examiner	Art Unit			
	Amanda T Le	2634			
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA: - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica: - If the period for reply specified above is less than thirty (30) da: - If NO period for reply is specified above, the maximum statutor: - Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. **CFR 1.136(a). In no event, however, may a ration. ys, a reply within the statutory minimum of thing y period will apply and will expire SIX (6) MON by statute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed or	n <u>21 December 2001</u> .				
2a) This action is FINAL . 2b)	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice u	ınder <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the appli	Claim(s) <u>1-14</u> is/are pending in the application.				
4a) Of the above claim(s) is/are w	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers					
9) The specification is objected to by the Ex	kaminer.				
10)⊠ The drawing(s) filed on <u>21 December 20</u>	<u>01</u> is/are: a)⊡ accepted or b)⊠	objected to by the Examiner.			
Applicant may not request that any objection	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for the a) All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents of the priority documents of the certified copies of the application from the International	numents have been received. Suments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage			
* See the attached detailed Office action fo	r a list of the certified copies not	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO- 3) Nformation Disclosure Statement(s) (PTO-1449 or PTO		s)/Mail Date nformal Patent Application (PTO-152)			
Paper No(s)/Mail Date 12/21/01.	6) Other:	•			

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Drawings

1. The drawings are objected to because all the blocks shown in Fig. 1 are not labeled descriptively. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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3. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

On line 9, claim 1, on line 4, claim 6 and on line 8, claim 12 recite "said comparator equals said threshold voltage". It is unclear if the output voltage or the input voltage of the comparator is referred to.

On line 2, claim 2 recites "repeating steps d through e nine for an interval of nine times". It is unclear if the repeating is to be performed nine times or nine intervals.

On line 2, claim 3, on line 2, claim 9 and on line 3, claim 13 recite "said digital to analog values". There is insufficient antecedent basis for the claimed limitation.

On line 3, claim 4 and on line 15, claim 12 recite "said digital to analog output". There is insufficient antecedent basis for the claimed limitation.

On line 3, claim 5, on line 4, claim 11 and on line 3, claim 14 recite "said digital to analog comparator". There is insufficient antecedent basis for the claimed limitation.

On line 3, claim 7 recites "said voltage output of said integrator". There is insufficient antecedent basis for the claimed limitation.

On line 2, claim 8 recites "said digital to analog converter changed". It is unclear if "the output of the digital to analog converter is changed" is meant.

On line 1, claim 11 recites "the phase locked loop circuit of claim 2". There is insufficient antecedent basis for the claimed limitation.

On line 1, 13-16, claim 12 recites "the steps of" and "returning" and "calculating" steps.

The claim is ambiguous since it recites both a system and a method in a single claim.

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Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-14 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 5, 6, 12 of U.S. Patent No. 6,529,055. Although the conflicting claims are not identical, they are not patentably distinct from each other.

Regarding claims 1, 3-7, 9-14, the differences between the patent claims and the application claims would have been obvious to one of ordinary skill in the art at time of the invention. With respect to claims 1, 3, 4, 6, 7, 9, 10, 12-14, omission of the feature recited in the patent claims whose function is not needed in a particular system requirement would have been obvious to one of ordinary skill in the art at the time of the invention. As for claims 2, 5, 8 and 11, selecting a specific number of times for repeating steps d through e to meet particular design specifications would have been obvious to one of ordinary skill in the art at the time of the invention.

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Allowable Subject Matter

6. Claims 1-14 would be allowable if rewritten or amended to overcome the rejection(s) set

forth in this Office action.

7. The following is a statement of reasons for the indication of allowable subject matter:

Prior art of record, taken individually or collectively, fails to disclose, in a manner as claimed, a

method for measuring the response of a voltage controlled oscillator in a phase locked loop or a

phase locked loop circuit wherein "the output of an integrator is set near a threshold voltage of a

comparator; a digital to analog converter output is set to a minimum value; a counter M is

continuously adjusted until the output voltage of the comparator equals said threshold voltage,

wherein said digital to analog converter output voltage is changed in stepwise fashion to another

output voltage in association with said counter M for as many intervals needed to meet precision

requirements."

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Brown et al (US 6,826,246) discloses a phase locked loop with control voltage

centering. Fernandez-Texon (US 6,545,545) discloses a voltage controlled oscillator frequency

auto-calibrating system.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Amanda T Le whose telephone number is (571) 272-3052.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AMANDAT.LE
PRIMARY EXAMINER

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